

**APPARATUS AND METHOD FOR
CLOCK DOMAIN CROSSING WITH INTEGRATED DECODE**

Abstract of the Disclosure

5 An apparatus and method for transferring signals between timing domains. The
apparatus includes a receiver for receiving signals operative in a first timing domain, a
decoder for at least partially decoding the signals to generate at least one decoded
signal, and an output timing register for outputting the at least one decoded signal in a
second timing domain. The signals transferred from the first timing domain to the
10 second timing domain may include, for example, command and/or address signals. The
first and second timing domains need not have any predetermined phase relationship.
By at least partially decoding the signals during the transfer between the first and the
second timing domains, the latency introduced by the timing domain transfer is
employed for a useful purpose.

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